

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) A stator support system for supporting a stator coil assembly, the stator support system comprising:

an inner support tube having an outer surface;

a plurality of spaced windings supported on the outer surface of the inner support tube, spaces between adjacent windings defining a plurality of gaps;

a plurality of wedges, each disposed within one of the plurality of gaps and having an upper edge and a lower edge, the lower edge configured to mechanically engage the outer surface of the inner support tube; and

a plurality of cross support members positioned over the plurality of spaced windings and positioned perpendicular to a longitudinal axis of the stator coil assembly, ~~spaces between adjacent cross support members defining a plurality of channels~~, each of the cross support members having a first edge configured to mechanically engage the upper edge of the plurality of wedges,

wherein at least two of the plurality of cross support members are spaced apart to define a channel oriented perpendicular to the longitudinal axis of the radial opening.

2. (cancelled)

3. (currently amended) The stator support system of claim 1 further comprising:

a housing having an inner surface defining a radial opening with a longitudinal axis positioned at center of the radial opening; and

wherein each of the plurality of cross support members [have] has a second edge configured to mechanically engage the inner surface of the housing.

4. (original) The stator support system of claim 3 wherein the inner surface of the housing includes a plurality of grooves for mechanically receiving the plurality of spaced cross support members.

5. (original) The stator support system of claim 1 wherein the outer surface of the inner support tube is configured with a plurality of grooves for mechanically receiving the plurality of wedges.

6. (previously amended) The stator support system of claim 1 wherein the first edge of the plurality of spaced cross support members is configured with at least one tab.

7. (previously amended) The stator support system of claim 1 wherein the upper edge of the plurality of wedges is configured with at least one notch.

8. (original) The stator support system of claim 1 wherein the inner support tube is circular in cross section.

9. (original) The stator support system of claim 1 wherein the wedges are formed of a non-metallic material.

10. (previously amended) The stator support system of claim 1 wherein each of the plurality of cross support members is formed of a high permeability material.

11. (cancelled)

Claims 12-24 have been withdrawn.

25. (previously added) The stator support system of claim 1 further comprising magnetic material disposed within at least one channel.

26. (previously added) The stator support system of claim 25 wherein the magnetic material disposed within at least one channel is wire having high magnetic permeability.

27. (previously added) The stator support system of claim 26 wherein the wire is wound around the longitudinal axis of the inner support tube within at least one channel.

28. (previously added) The stator support system of claim 25 wherein the magnetic material disposed within at least one channel is iron laminate.

29. (previously added) The stator support system of claim 1 wherein the cross support members are formed of iron.

30. (previously added) The stator support system of claim 1 wherein the cross support members are formed of a material having a low magnetic permeability.

31. (previously added) The stator support system of claim 30 wherein the cross support members are formed of a composite glass material.

32. (previously added) The stator support system of claim 3 wherein the second edge of each cross support member includes a plurality of tabs, and the inner surface of the housing includes a plurality of slots for mechanically receiving the plurality of tabs disposed on the second edge of each cross support member.

33. (currently amended) An apparatus for mounting a motor stator assembly within a outer housing defining at least one radial opening with a longitudinal axis positioned at center of the radial opening, the apparatus comprising:

a plurality of cross support members positioned perpendicular to the longitudinal axis of the radial opening, each of the cross support members having a first edge mechanically engaged to the motor stator assembly and a second edge mechanically engaged ~~within~~ to the outer housing, wherein at least two of the plurality of cross support members are spaced apart to provide define a at least one channel oriented perpendicular to the longitudinal axis of the radial opening between the motor stator assembly and outer housing; and

magnetic material disposed within at least one channel.

34. (previously added) The apparatus of claim 33, wherein the cross support members are made from material having a high magnetic permeability.

35. (previously added) The apparatus of claim 33, wherein the cross support members are made from material having a low magnetic permeability.

36. (previously added) The apparatus of claim 34, wherein the magnetic material disposed within at least one channel is wire having high magnetic permeability.

37. (previously added) The apparatus of claim 34, wherein the magnetic material disposed within at least one channel is iron laminate.